

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
20 October 2005 (20.10.2005)

PCT

(10) International Publication Number
WO 2005/096740 A3

(51) International Patent Classification⁷: G09G 3/00, 5/00,
H04N 7/167, 13/04, 15/00

(21) International Application Number:

PCT/US2005/010807

(22) International Filing Date: 30 March 2005 (30.03.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/557,901 30 March 2004 (30.03.2004) US

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

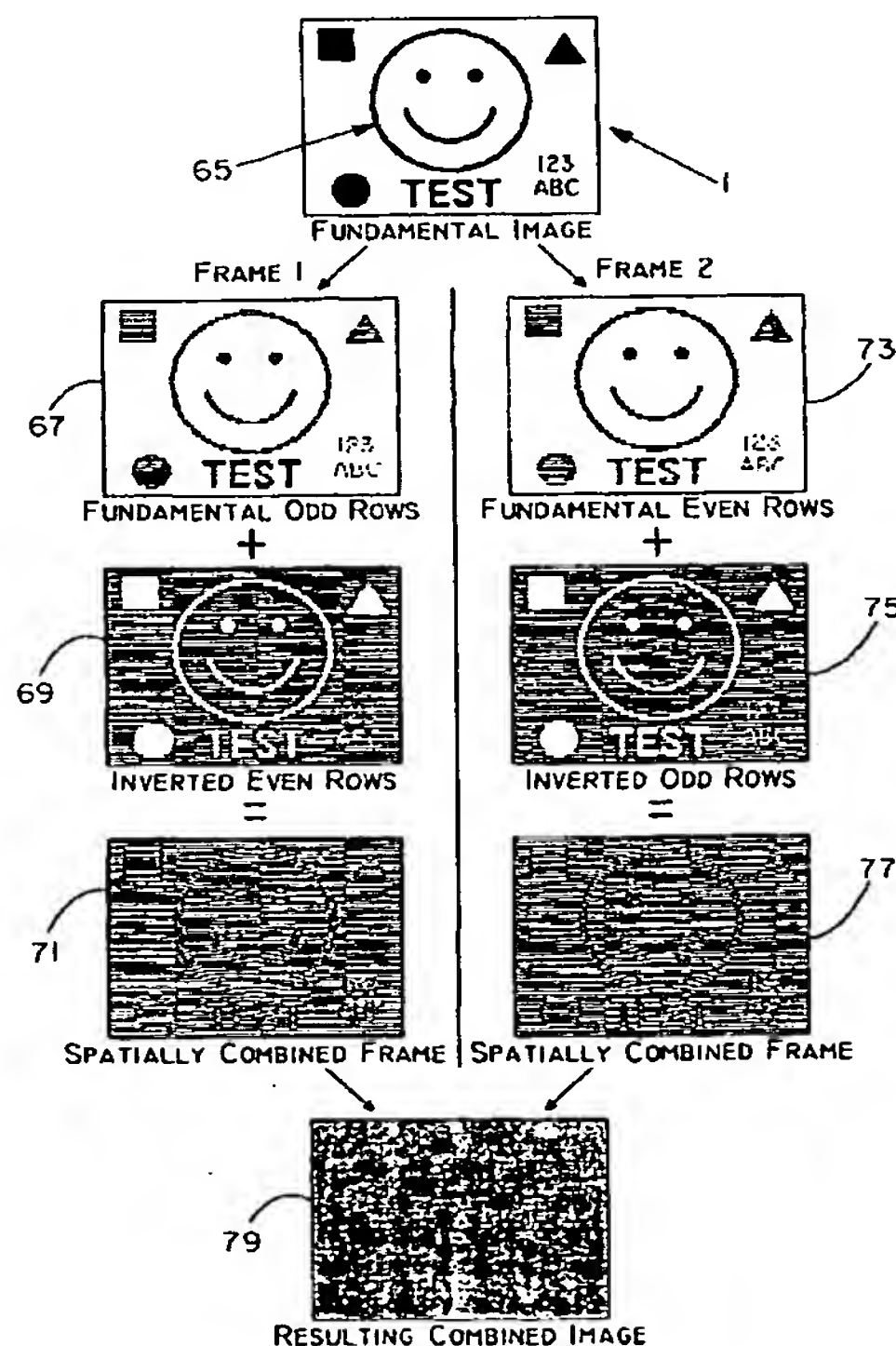
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SI, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

— of inventorship (Rule 4.17(iv))

[Continued on next page]

(54) Title: CONFIDENTIAL VIEWING SYSTEM UTILIZING SPATIAL MULTIPLEXING



(57) Abstract: An apparatus and method for providing confidential viewing of a fundamental image (65) on an image display device (1) utilizing spatial multiplexing image modification, whereby fundamental image components (67, 73) of the fundamental image are spatially multiplexed or combined (71, 77) with appropriately determined inverted image components (69, 75) so as to neutralize the fundamental image (65) and generate a combined image (79) that appears substantially featureless to the naked eye. The display pixels aligned with the fundamental image components (I_{11}) are cross-polarized relative to the adjacent pixels (I_{21}) aligned with the inverted image components, thereby providing for extraction of the fundamental image by an authorized viewer wearing appropriate eyewear (63) polarized to correlate with the state of polarization of the pixels aligned with the fundamental image components. Enhanced security may be provided by utilizing a variable polarizer to alter the state of polarization of the respective display regions, or by altering the position of fundamental and inverse image components to align with differently polarized display regions. Extraction of the fundamental image may then be accomplished by using active polarized eyewear synchronized to correlate in polarization with the pixels aligned with the fundamental image components.

WO 2005/096740 A3



Published:

— *with international search report*

(88) Date of publication of the international search report:

6 April 2006

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.